

L Number	Hits	Search Text	DB	Time stamp
1	18	"5455127"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 13:42
2	6853	(phosphate with ester) same (aryl phenyl)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 13:43
3	108	((phosphate with ester) same (aryl phenyl)) and (electrolyte with (organic nonaqueous))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 13:45
-	0	(thermal near2 inhibitor) same electrolyte same phosphate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 09:17
-	46	(thermal near2 inhibitor) same phosphate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 09:21
-	5372	(flame near2 retardant) same phosphate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 09:21
-	15	((flame near2 retardant) same phosphate) same electrolyte	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 09:27
-	3	"04184370"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 09:31
-	2	"08088023"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 09:34
-	122	((flame near2 retardant) same phosphate) and electrolyte	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/30 13:18

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(FILE 'HOME' ENTERED AT 11:40:24 ON 30 SEP 2003)

FILE 'CAPLUS' ENTERED AT 11:40:35 ON 30 SEP 2003
S 2528-36-1/REG#

L1 FILE 'REGISTRY' ENTERED AT 11:40:51 ON 30 SEP 2003
1 S 2528-36-1/RN

L2 FILE 'CAPLUS' ENTERED AT 11:40:51 ON 30 SEP 2003
103 S L1
L3 1 S L2 AND ELECTROLYTE
L4 156 S (PHOSPHATE (2W) ESTER#) AND ELECTROLYTE#
L5 88 S L4 AND BATTER###
L6 49 S (PHOSPHATE (2W) ESTER#) AND (NONAQUEOUS (2W)ELECTROLYTE#)
L7 3 S L6 AND (ARYL OR ALKARYL)

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YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:881477 CAPLUS
DOCUMENT NUMBER: 134:44552
TITLE: Secondary **nonaqueous electrolyte**
batteries and their manufacture
INVENTOR(S): Takezawa, Hideharu; Bito, Yasuhiko; Matsuda, Hiromu;
Toyoguchi, Yoshinori
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076016	A1	20001214	WO 2000-JP3581	20000601
W: CN, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1115170	A1	20010711	EP 2000-931667	20000601
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:		JP 1999-158615	A	19990604
		WO 2000-JP3581	W	20000601
OTHER SOURCE(S): MARPAT 134:44552				
AB The batteries use cathodes, anodes, and/or Li salt electrolyte solns. contg. tri C7-12-alkyl phosphate, di C1-12-alkyl or di-aryl				

phosphate, and/or mono C1-12 alkyl phosphate or mono-aryl phosphate. The batteries are prepd. by using an electrode active mass, active mass paste, and/or electrodes contg. the **phosphate ester**.

IT Secondary batteries

(lithium; electrodes and electrolyte solns. contg. **phosphate ester** additives for secondary lithium batteries)

IT 96-49-1, Ethylene carbonate 105-58-8, Diethyl carbonate 7440-44-0, Carbon, uses 7791-03-9, Lithium perchlorate 12190-79-3, Cobalt lithium oxide (CoLiO₂)

RL: DEV (Device component use); USES (Uses)

(electrodes and electrolyte solns. contg. **phosphate ester** additives for secondary lithium batteries)

IT 107-66-4, Dibutyl **phosphate** 598-02-7, Diethyl **phosphate** 682-49-5, Tridodecyl **phosphate** 701-64-4, Monophenyl **phosphate** 812-00-0, Monomethyl **phosphate** 813-78-5, Dimethyl **phosphate** 838-85-7, Diphenyl **phosphate** 1623-06-9, Monopropyl **phosphate** 1623-14-9, Monoethyl **phosphate** 1623-15-0, Monobutyl **phosphate** 1804-93-9, Dipropyl **phosphate** 1806-54-8, Trioctyl **phosphate** 2382-76-5, Monopentyl **phosphate** 2627-35-2, Monododecyl **phosphate** 3115-39-7, Dioctyl **phosphate** 3138-42-9, Dipentyl **phosphate** 3138-43-0, Dinonyl **phosphate** 3900-03-6, Monoheptyl **phosphate** 3900-04-7, Monoheptyl **phosphate** 3900-12-7, Diheptyl **phosphate** 3900-13-8, Dihexyl **phosphate** 3921-30-0, Monodecyl **phosphate** 3991-73-9, Monooctyl **phosphate** 4200-55-9, Tridecyl **phosphate** 4621-50-5, Triheptyl **phosphate** 7057-92-3, Didodecyl **phosphate** 7598-64-3, Diundecyl **phosphate** 7795-87-1, Didecyl **phosphate** 13018-37-6, Trinonyl **phosphate** 19541-53-8 36047-43-5, Monononyl **phosphate** 36047-45-7, Monoundecyl **phosphate** 54653-10-0 54653-24-6 86052-84-8 130675-91-1 130675-92-2 160087-64-9 312636-94-5 312636-95-6 312636-96-7 312636-97-8 312636-98-9 312636-99-0

RL: MOA (Modifier or additive use); USES (Uses)

(**phosphate ester** additives in electrodes and electrolyte solns. for secondary lithium batteries)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:545336 CAPLUS

DOCUMENT NUMBER: 131:159762

TITLE: Secondary **nonaqueous electrolyte** batteries

INVENTOR(S): Terashima, Hideki; Fujita, Shigeru; Segawa, Takeshi

PATENT ASSIGNEE(S): Sony Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho. 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 11233140	A2	19990827	JP 1998-31819	19980213
PRIORITY APPLN. INFO.:			JP 1998-31819	19980213
OTHER SOURCE(S): MARPAT 131:159762				
AB The batteries use Mn oxide or Li Mn oxide cathode, Li or Li intercalating or Li alloy anodes, and a nonaq. electrolyte; where the electrolyte contains a phosphate ester having 3 same of different alkyl and/or aryl groups.				
IT Carbon fibers, uses				
RL: DEV (Device component use); USES (Uses) (anodes in secondary lithium batteries contg. phosphate esters in electrolytes)				
IT Battery electrolytes (electrolytes contg. phosphate esters for secondary lithium batteries contg.)				
IT 12057-17-9, Lithium manganese oxide (LiMn2O4) RL: DEV (Device component use); USES (Uses) (cathodes in secondary lithium batteries contg. phosphate esters in electrolytes)				
IT 78-40-0, Triethyl phosphate 96-49-1, Ethylene carbonate 115-86-6, Triphenyl phosphate 512-56-1, Trimethyl phosphate 616-38-6, Dimethyl carbonate 14283-07-9, Lithium fluoroborate 21324-40-3, Lithium hexafluorophosphate RL: DEV (Device component use); USES (Uses) (electrolytes contg. phosphate esters for secondary lithium batteries contg.)				

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1999:111650 CAPLUS
 DOCUMENT NUMBER: 130:141639
 TITLE: **Nonaqueous electrolyte** batteries
 INVENTOR(S): Fujita, Shigeu; Segawa, Takeshi; Adachi, Momoe
 PATENT ASSIGNEE(S): Sony Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 11040193	A2	19990212	JP 1997-191519	19970716
PRIORITY APPLN. INFO.:			JP 1997-191519	19970716

OTHER SOURCE(S): MARPAT 130:141639

AB The batteries use Li intercalating electrodes and a nonaq. electrolyte soln., where the electrolyte soln. solvent contains **phosphate esters** and I (R1 = alkyl group, X = halogen, n = 1-5) and/or II (R2 and R3 = alkyl group). The **phosphate ester** is (R4O)(R5O)(R6O)P(:O), in which R4-6 are alkyl or **aryl** groups.

IT Battery electrolytes

(nonaq. solvent mixts. contg. Ph ether derivs. and **phosphate esters** for secondary lithium battery electrolytes)

IT 78-40-0, Triethyl phosphate 96-49-1, Ethylene carbonate 105-58-8, Diethyl carbonate 108-32-7, Propylene carbonate 115-86-6, Triphenyl phosphate 321-28-8, 2-Fluoro-1-methoxybenzene 398-62-9 451-80-9, 2-Fluoro-1-ethoxybenzene 452-09-5 452-10-8 459-60-9, 4-Fluoro-1-methoxybenzene 512-56-1, Trimethyl phosphate 2845-89-8 7051-16-3 17715-69-4, 1,3-Dimethoxy-4-bromobenzene 21324-40-3, Lithium hexafluorophosphate 25245-34-5 74137-36-3 82830-49-7, 1,4-Dimethoxy-2-fluorobenzene 195136-68-6 219998-30-8 219998-31-9

RL: DEV (Device component use); USES (Uses)

(nonaq. solvent mixts. contg. Ph ether derivs. and **phosphate esters** for secondary lithium battery electrolytes)